	A	
:	Application No.	Applicant(s)
Notice of Allowability	09/965,881	SCHULZ ET AL.
	Examiner	Art Unit
	Ramnandan Singh	2646
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. ☑ This communication is responsive to <u>Oct 11, 2005</u> .		
2. The allowed claim(s) is/are <u>1,2 and 4</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0-Paper No./Mail Date	Paper No./Mail Dat 8), 7. ☐ Examiner's Amendn	e nent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	nt of Reasons for Allowance
	9. 🛛 Other	

Examiner's Statement of Reasons for Allowance:

This invention relates to a method for calculating noise level in a signal. Claim 1 identifies the uniquely distinct feature of the method comprising the steps of: accumulating two sample windows of the signal; calculating energy of the signal within each of the sample windows; calculating the difference in the energy of the signal within each of the sample windows; updating a variance parameter based on the difference; in the event that the variance parameter is less than a predetermined multiple of the energy of the signal within a most recent one of the sample windows then indicating the presence of noise and setting a noise level parameter as a function of the energy of the signal within the most recent one of the sample windows, and in the event that the variance parameter is greater than or equal to than the predetermined multiple of the energy of the signal within the most recent one of the sample windows then indicating the absence of noise in the most recent sample window; and in the event that the noise level parameter exceeds the energy of the signal within the most recent one of the sample windows then setting the noise level parameter to equal the energy of the signal within the most recent one of the sample windows, wherein the step of updating the variance parameter further comprises the steps of; comparing the variance parameter to the difference in the energy of the signal within each of the sample windows and setting the variance parameter to the weighted average of the difference and a previous value of the variance parameter, and in the event that the variance parameter is greater than the difference then adjusting the variance parameter with a predetermined decay ratio, and in the event that the variance parameter is less than or equal to the difference then adjusting said variance parameter with a predetermined attack ratio. As such, claim 1 requires adjusting the variance parameter with a predetermined decay ratio in the event that the variance parameter is greater than the difference in the energy of the signal within each of the sample windows, and adjusting the variance parameter with a predetermined attack ratio in the event that the variance parameter is less than or equal to the difference. In this context, the applicant's argument is persuasive. While the closest prior art, Graumann [US 6,175,634 B1] and Reaves et al [WO 9602911 A1] each teach updating a variance parameter, Graumann using an error_update_weight, and Reaves et al using a neural network; neither Graumann nor Reaves et al teach or suggest adjusting the variance parameter with a predetermined decay ratio in the event that the variance parameter is greater than the difference in the energy of the signal within each of the sample windows, and adjusting the variance parameter with a predetermined attack ratio in the event that the variance parameter is less than or equal to the difference. As such, the prior art, either singularly or in combination, fail to aniticipate or render the above limitation obviuos. Therefore, claim 1 is allowable.

Claims 2 and 4 are allowable due to dependence from claim 1.

9. Other:

The claims have been re-numbered as follows:

CLAIMS NUMBER (ORIGINAL)

1-2

4

1-2

3

Claim no. 1 along with figure number 1 will be published in the Official Gazette.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Allowance".

SINH TRAN
SUPERVISORY PATENT EXAMINER